



# SPYWOLF

## Security Audit Report



Completed on  
**May 27, 2023**

@SPYWOLFNWORK



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SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **BLUE BIRD PEPE** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# BLUE BIRD PEPE

# trending

# BBPEPE



## PROJECT DESCRIPTION

### According to their whitepaper:

Blue Bird Pepe (BBPEPE) represents the fusion of the legendary Pepe meme and the symbol of free speech and fun on Twitter. However, BBPEPE is not just another memecoin; it incorporates utility within the meme itself. With a team of experienced individuals, BBPEPE aims to achieve the seemingly impossible.

**Release Date:** Presale starts in May, 2023

**Category:** Meme token



# CONTRACT INFO

Token Name  
BLUE BIRD PEPE

Symbol  
BBPEPE

Contract Address  
0x091d471d8410cb14451a45F406922f271E356283

Network  
Binance Smart Chain

Language  
Solidity

Deployment Date  
May 22, 2023

Verified?  
Yes

Total Supply  
387,213,929,113,000

Status  
Not launched

## TAXES

Buy Tax  
**none**

Sell Tax  
**none**



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# TOKEN TRANSFERS STATS

Transfer Count	9
Uniq Senders	2
Uniq Receivers	9
Total Amount	8333661999999999.9 BBPEPE
Median Transfer Amount	8413000000000 BBPEPE
Average Transfer Amount	92596244444444.42 BBPEPE
First transfer date	2023-05-22
Last transfer date	2023-05-25
Days token transferred	2

# SMART CONTRACT STATS

Calls Count	13
External calls	9
Internal calls	4
Transactions count	10
Uniq Callers	2
Days contract called	2
Last transaction time	2023-05-25 12:33:29 UTC
Created	2023-05-22 08:17:06 UTC
Create TX	0xa2332f504c71703a2e1ebd3887f4e32ca0489a445041f8f155354ebe7980c961
Creator	0x678a0a7b147c810fcd08b2ca4e6a1ldb46c0fb2b



# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## ⚠ High Risk

Owner can blacklist address, making it impossible to sell.  
If liquidity pair is blacklisted, selling will fail for all users.

```
function blacklist(address _address, bool _isBlacklisting) external onlyOwner {
    blacklists[_address] = _isBlacklisting;
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal virtual {
    .....
    _beforeTokenTransfer(sender, recipient, amount);
    .....
}

function _beforeTokenTransfer(
    address from,
    address to,
    uint256 amount
) override internal virtual {
    require(!blacklists[to] && !blacklists[from], "Blacklisted");
    .....
}
```

- Recommendation:
  - Blacklisting addresses for bot protection purposes should be automated. Liquidity pair should be always excluded from such practices.



# FOUND THREATS

## ⚠ High Risk

Owner can enable/disable trading.

When `uniswapV2Pair` is set at `address(0)`, this can be considered for disable trading as it effectively block transfers if the caller is not the owner.

```
function setRule(bool _limited, address _uniswapV2Pair,
uint256 _maxHoldingAmount, uint256 _minHoldingAmount) external onlyOwner {
    limited = _limited;
    uniswapV2Pair = _uniswapV2Pair;
    maxHoldingAmount = _maxHoldingAmount;
    minHoldingAmount = _minHoldingAmount;
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal virtual {
    .....
    _beforeTokenTransfer(sender, recipient, amount);
    .....
}

function _beforeTokenTransfer(
    address from,
    address to,
    uint256 amount
) override internal virtual {
    require(!blacklists[to] && !blacklists[from], "Blacklisted");

    if (uniswapV2Pair == address(0)) {
        require(from == owner() || to == owner(), "trading is not started");
        return;
    }
    .....
}
```

- Recommendation:
  - Once enabled, trading should not be disabled again.



# FOUND THREATS

## Informational

Owner can set min buy limit, and max wallet limit without limitations.  
If max wallet limit is set to 0, users won't be able to buy.  
If buy limit is set to big number, only big amounts can be bought.

```
function setRule(bool _limited, address _uniswapV2Pair,
uint256 _maxHoldingAmount, uint256 _minHoldingAmount) external onlyOwner {
    limited = _limited;
    uniswapV2Pair = _uniswapV2Pair;
    maxHoldingAmount = _maxHoldingAmount;
    minHoldingAmount = _minHoldingAmount;
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal virtual {
    .....
    _beforeTokenTransfer(sender, recipient, amount);
    .....
}

function _beforeTokenTransfer(
    address from,
    address to,
    uint256 amount
) override internal virtual {
    .....
    if (limited && from == uniswapV2Pair) {
        require(super.balanceOf(to) + amount <= maxHoldingAmount &&
super.balanceOf(to) + amount >= minHoldingAmount, "Forbid");
    }
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## BLUR BIRD PEPE

### GOOD PRACTICES FOUND

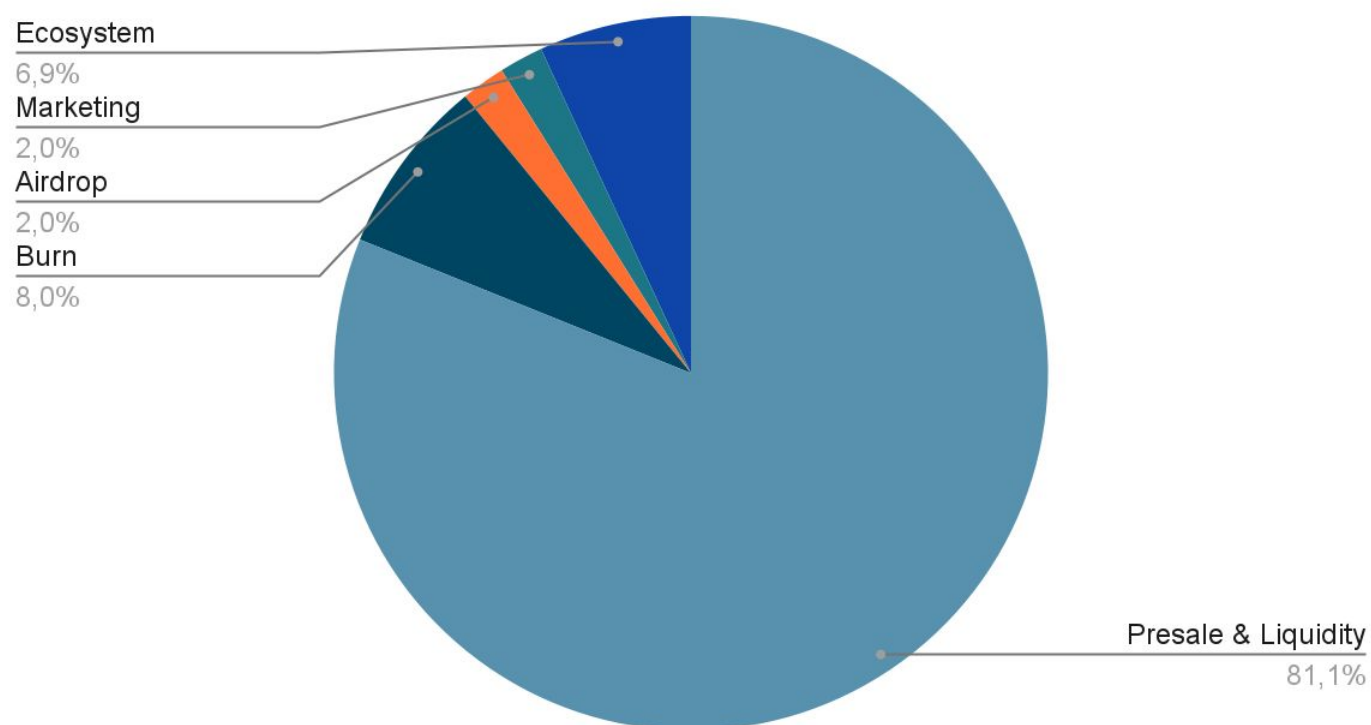
- ✓ The owner cannot mint new tokens after deployment



The following tokenomics are based on the project's whitepaper and/or website:

- 81.1% - Presale & Liquidity
- 2% - Marketing
- 6.9% - Ecosystem
- 2% - Airdrop
- 8% - Burn

### Tokens distribution



TOKENOMICS



# THE TEAM

! The team is anonymous

## KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





# WEBSITE

## Website URL

<https://www.bluebirdpepe.com/>

## Domain Registry

<https://www.namecheap.com>

## Domain Expiration

2024-05-10

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page design with appropriate color scheme and graphics.

## Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

## Whitepaper

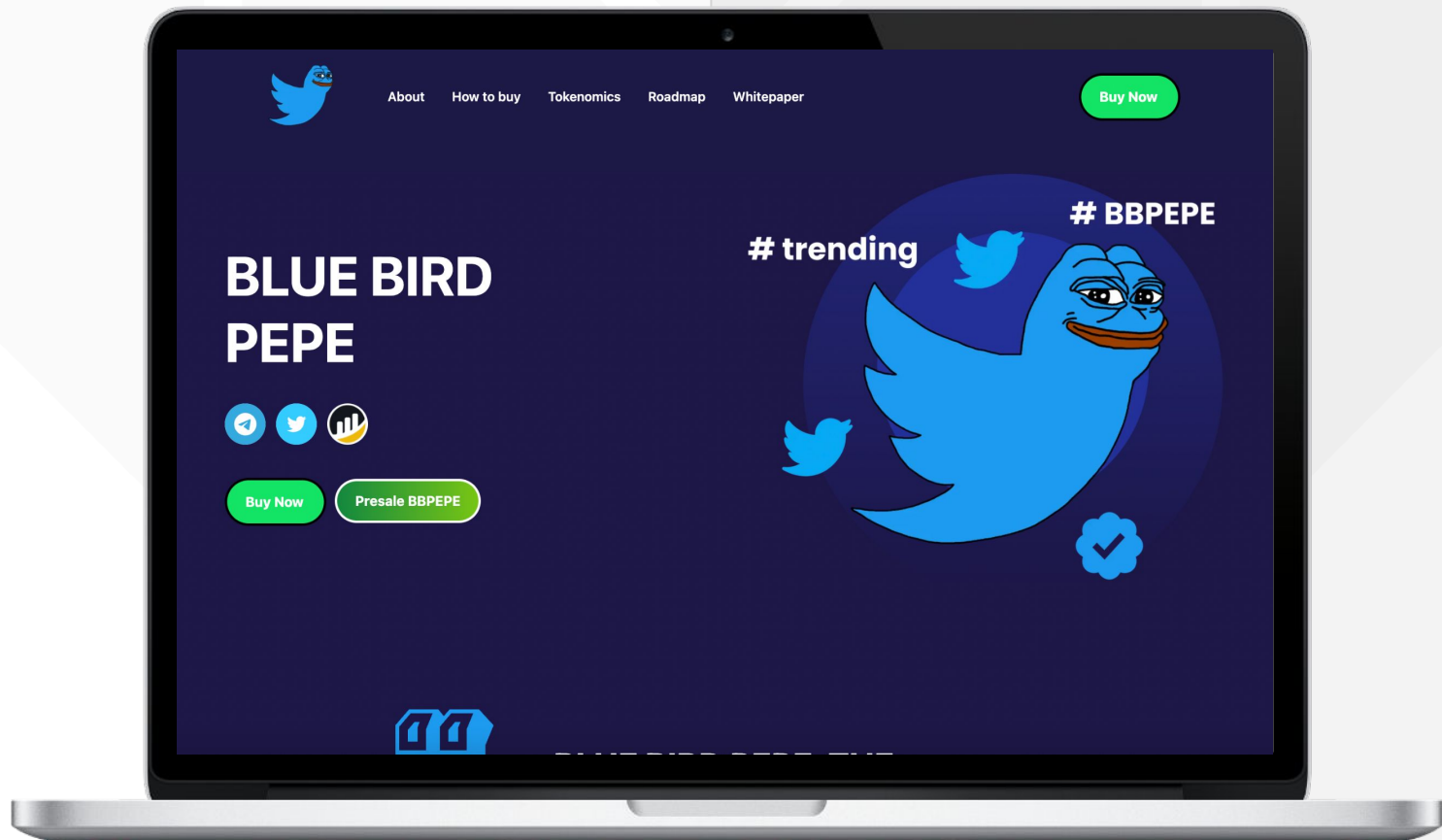
Explanatory.

## Roadmap

Yes, goals set without time frames.

## Mobile-friendly?

Yes



# bluebirdpepe.com

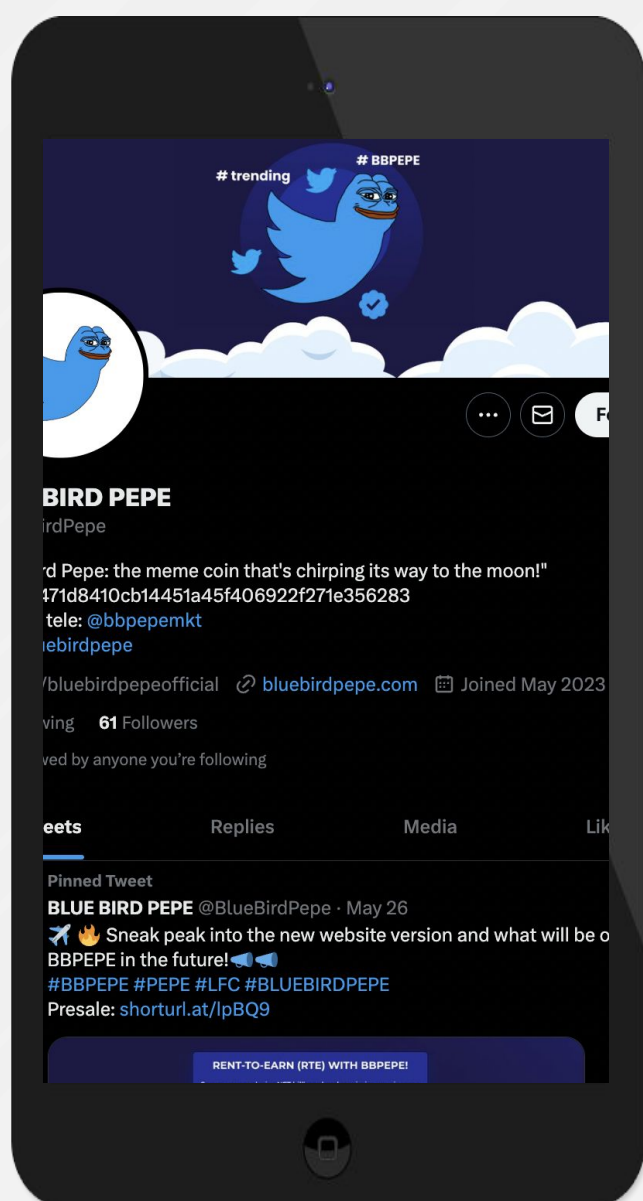


# SOCIAL MEDIA & ONLINE PRESENCE



## ANALYSIS

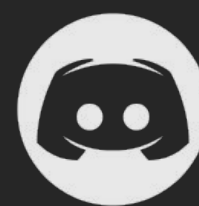
Project's social media pages are active.



Twitter

@BlueBirdPepe

- 61 followers
- Active
- Posts frequently



Discord

- Not available



Telegram

@bluebirdpepeofficial

- 4 724 members
- Active members
- Active mods



Medium

- Not available





# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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[t.me/joe\\_SpyWolf](https://t.me/joe_SpyWolf)

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.